

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101518\
 Data File : VX005347.D
 Acq On : 15 Oct 2018 16:48
 Operator : JC/MD
 Sample : PB113825ZHE#03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB113825ZHE#03

Quant Time: Oct 16 03:37:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	261354	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	386594	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	356130	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	167133	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	153655	52.97	ug/l	0.00
Spiked Amount			Recovery	=	105.94%	
35) Dibromofluoromethane	5.50	113	124383	48.58	ug/l	0.00
Spiked Amount			Recovery	=	97.16%	
50) Toluene-d8	8.71	98	467247	53.15	ug/l	0.00
Spiked Amount			Recovery	=	106.30%	
62) 4-Bromofluorobenzene	11.14	95	150123	45.46	ug/l	0.00
Spiked Amount			Recovery	=	90.92%	

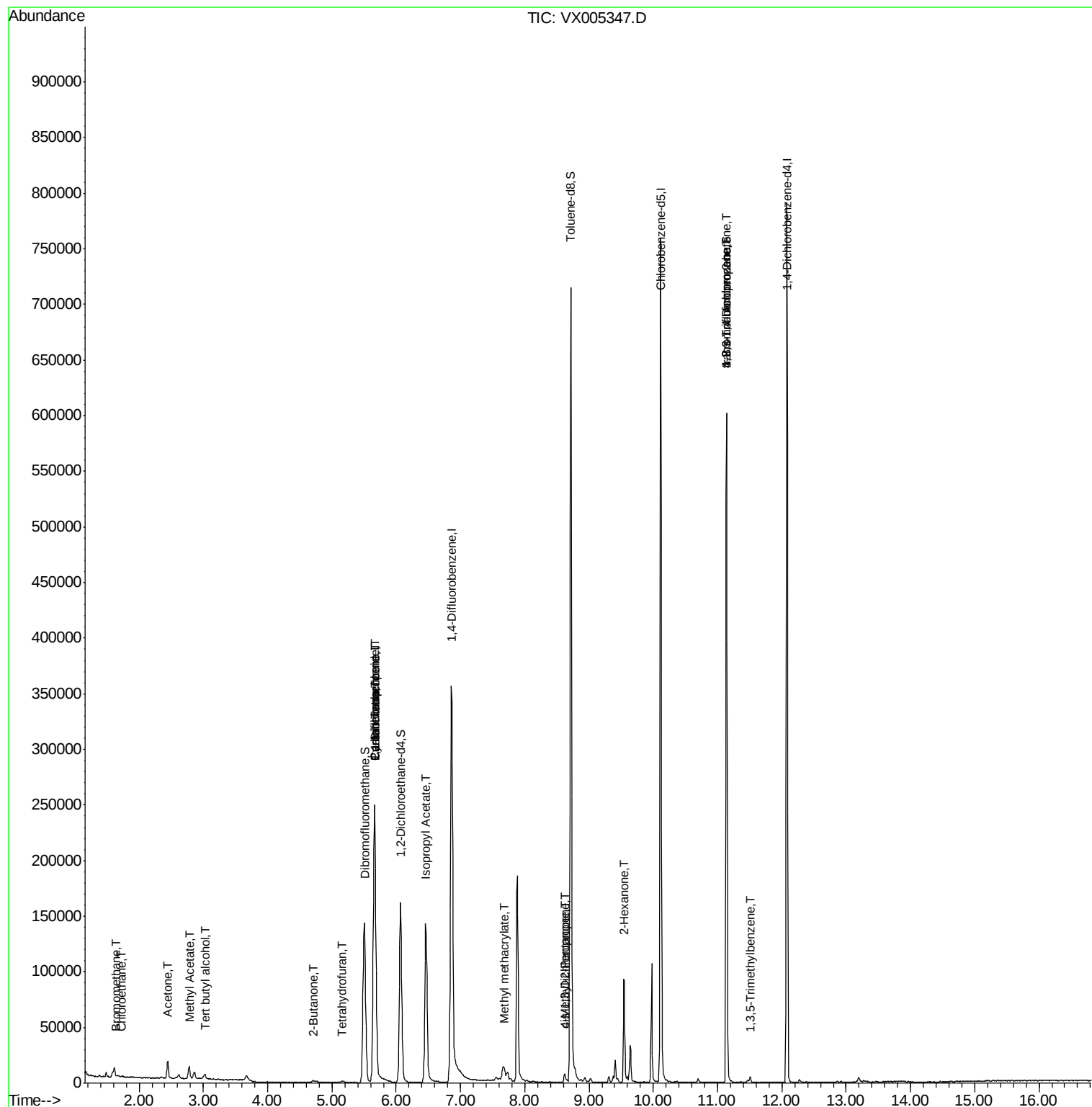
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	177	0.687	ug/l	85
6) Chloroethane	1.72	64	128	0.400	ug/l #	44
11) Tert butyl alcohol	3.02	59	2875	3.514	ug/l #	72
13) Acrolein	2.28	56	192	Below Cal	#	73
16) Acetone	2.45	43	16125	9.615	ug/l	100
18) Methyl Acetate	2.78	43	13880	2.909	ug/l	97
20) Methylene Chloride	2.85	84	2656	Below Cal		92
25) 2-Butanone	4.71	43	2820	1.149	ug/l #	84
29) Tetrahydrofuran	5.16	42	905	0.578	ug/l	92
31) Cyclohexane	5.67	56	4758	1.193	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	17372	4.640	ug/l #	50
38) Carbon Tetrachloride	5.67	117	22790	6.058	ug/l #	15
43) Isopropyl Acetate	6.46	43	190655	29.724	ug/l	95
44) Trichloroethene	7.21	130	207	Below Cal		93
48) Methyl methacrylate	7.68	41	7928	2.383	ug/l #	20
51) 4-Methyl-2-Pentanone	8.62	43	3526	0.794	ug/l #	42
54) cis-1,3-Dichloropropene	8.62	75	1177	0.298	ug/l #	73
59) 2-Hexanone	9.54	43	10779	3.017	ug/l #	53
76) 1,2,3-Trichloropropane	11.14	75	74100	22.857	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	2091	0.246	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.14	75	74100	69.450	ug/l #	10

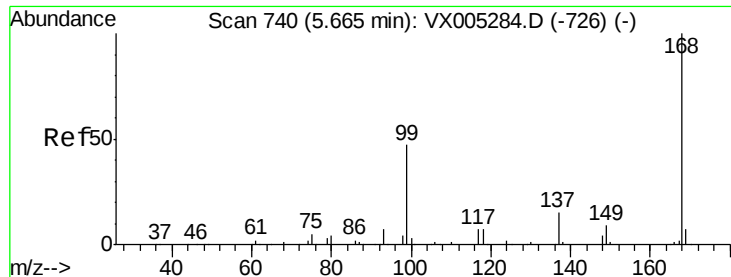
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Oct 12 11:28:43 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005347.D

Acq: 15 Oct 2018 16:48

Instrument :

MSVOA_X

ClientSampleId :

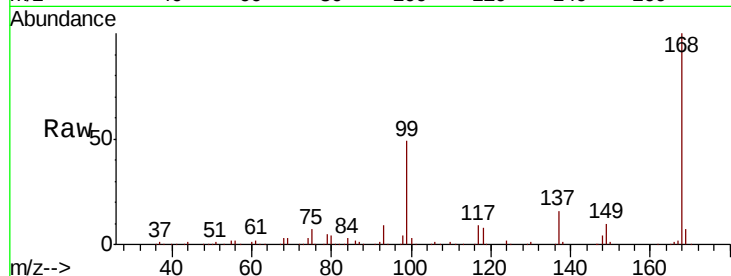
PB113825ZHE#03

Tot Ion:168 Resp: 261354

Ion Ratio Lower Upper

168 100

99 49.4 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

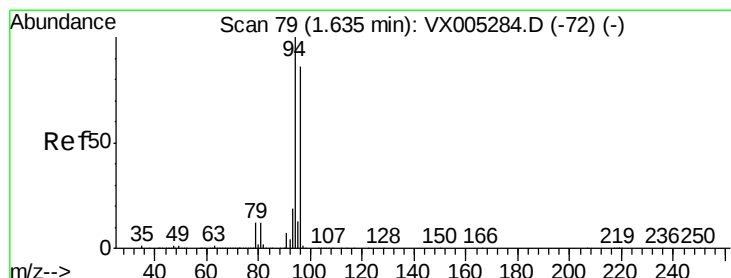
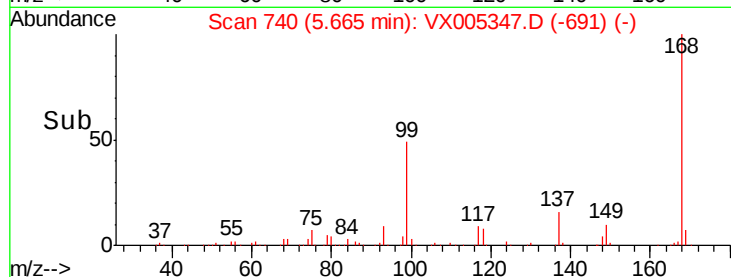
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.687 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005347.D

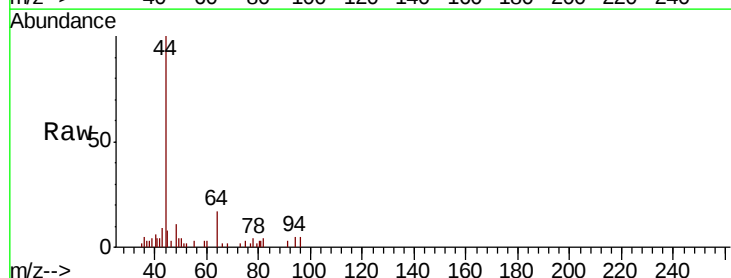
Acq: 15 Oct 2018 16:48

Tgt Ion: 94 Resp: 177

Ion Ratio Lower Upper

94 100

96 107.2 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

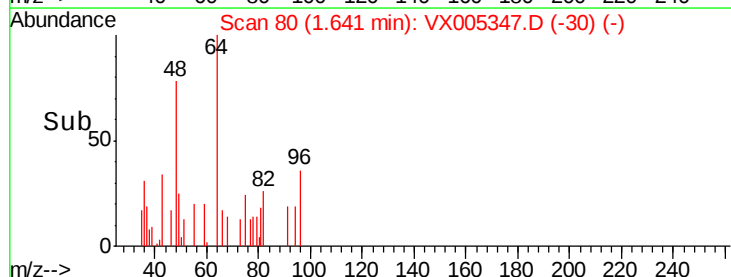
150

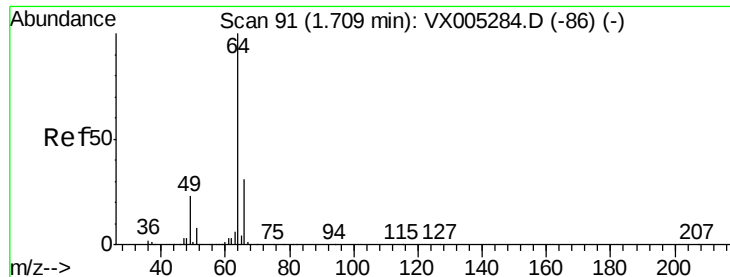
100

50

0

Time--> 1.62 1.64 1.66





#6

Chloroethane

Concen: 0.400 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX005347.D

Acq: 15 Oct 2018 16:48

Instrument :

MSVOA_X

ClientSampleId :

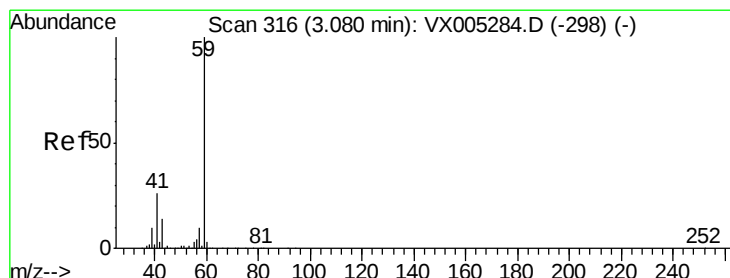
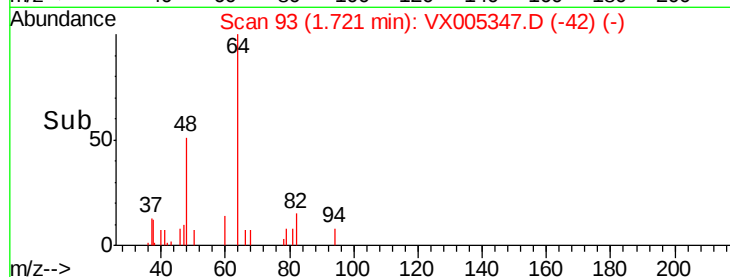
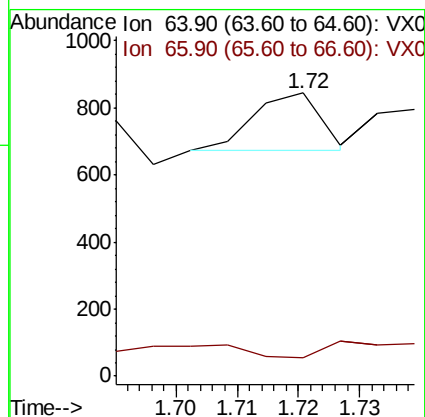
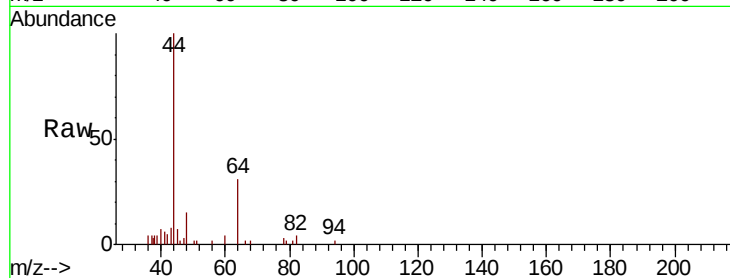
PB113825ZHE#03

Tot Ion: 64 Resp: 128

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#



#11

Tert butyl alcohol

Concen: 3.514 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX005347.D

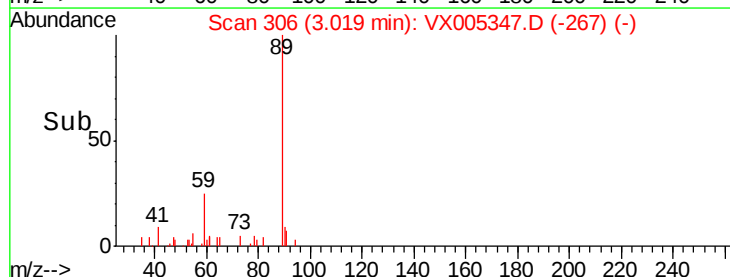
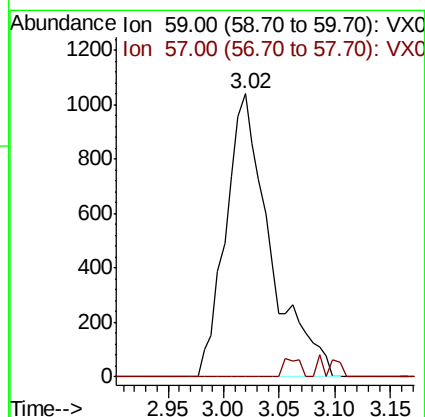
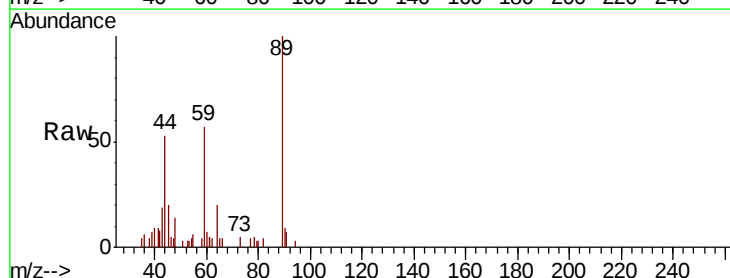
Acq: 15 Oct 2018 16:48

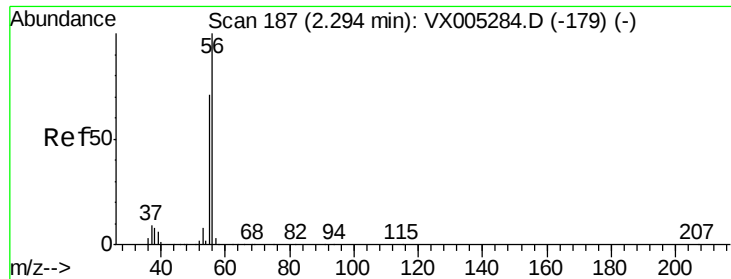
Tgt Ion: 59 Resp: 2875

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#





#13

Acrolein

Concen: Below Cal

RT: 2.28 min Scan# 184

Delta R.T. -0.02 min

Lab File: VX005347.D

Acq: 15 Oct 2018 16:48

Instrument :

MSVOA_X

ClientSampleId :

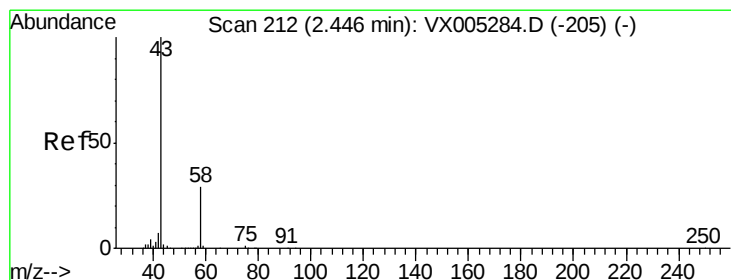
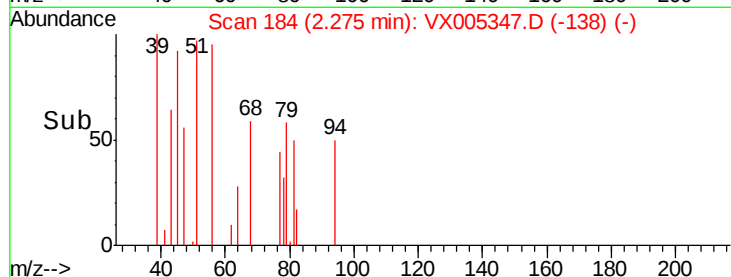
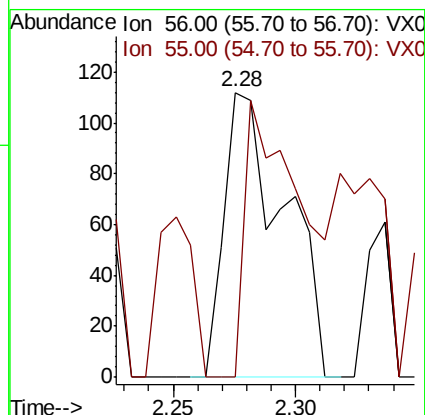
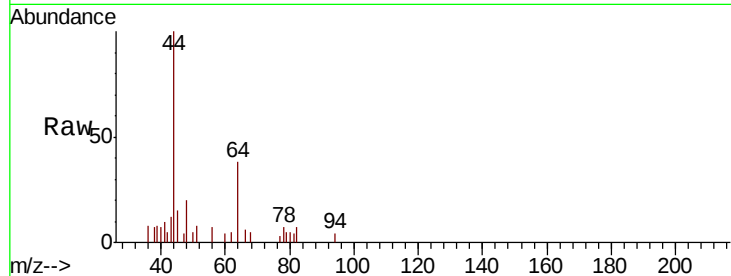
PB113825ZHE#03

Tot Ion: 56 Resp: 192

Ion Ratio Lower Upper

56 100

55 90.1 54.7 82.1#



#16

Acetone

Concen: 9.615 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005347.D

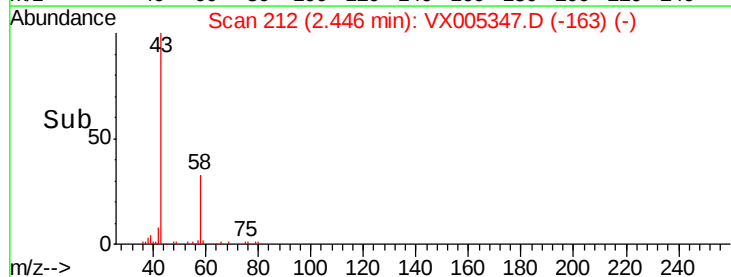
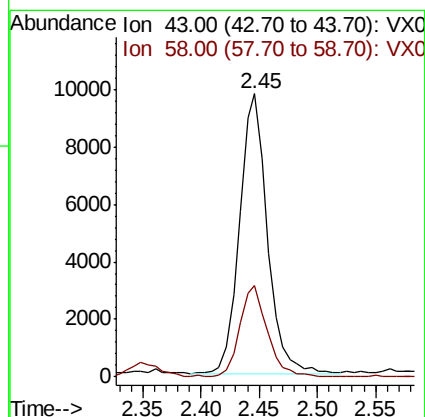
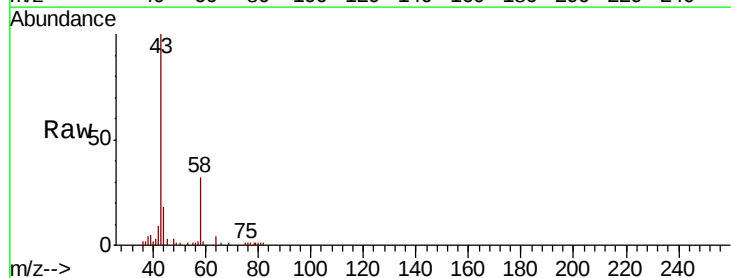
Acq: 15 Oct 2018 16:48

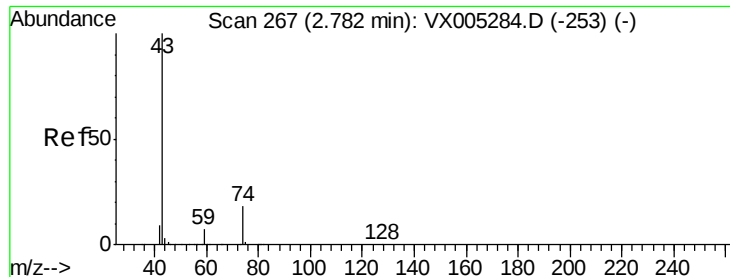
Tgt Ion: 43 Resp: 16125

Ion Ratio Lower Upper

43 100

58 32.9 26.2 39.4

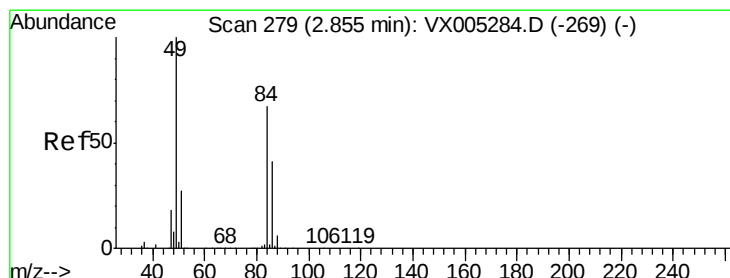
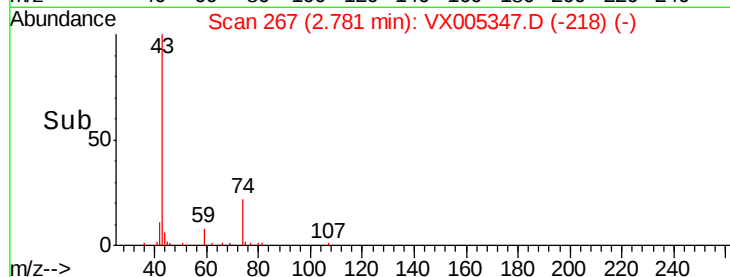
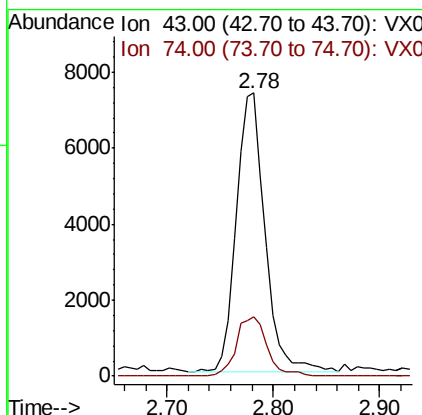
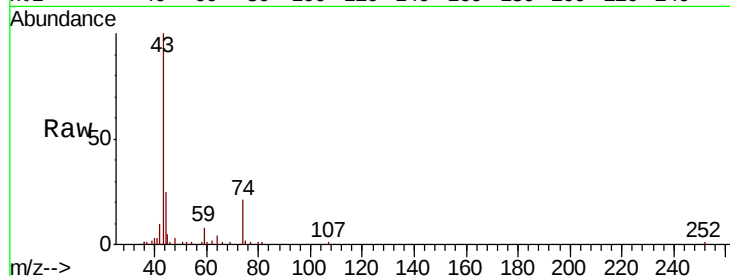




#18
Methvl Acetate
Concen: 2.909 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX005347.D
Acq: 15 Oct 2018 16:48

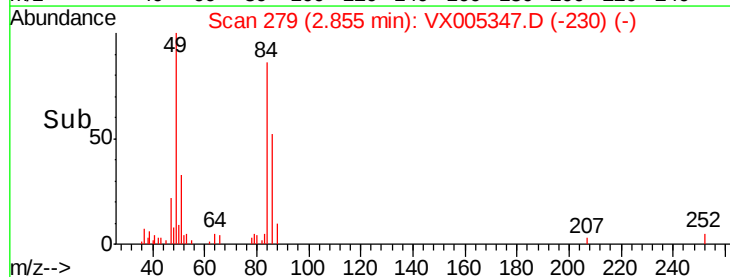
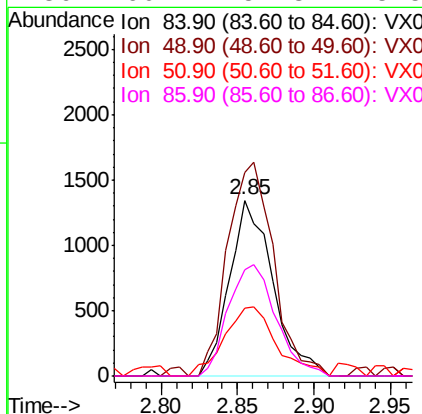
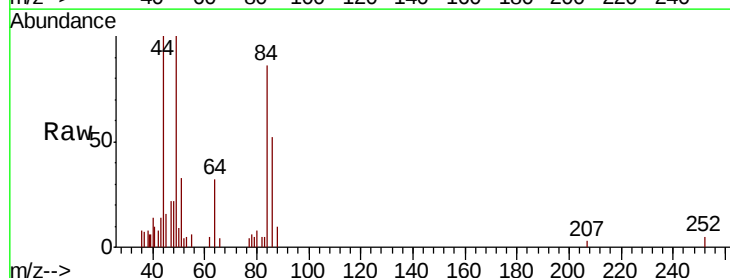
Instrument :
MSVOA_X
ClientSampleId :
PB113825ZHE#03

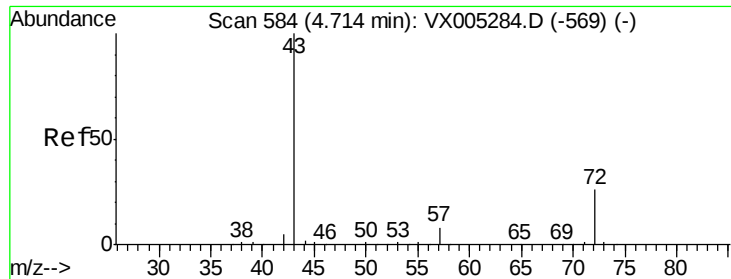
Tot Ion: 43 Resp: 13880
Ion Ratio Lower Upper
43 100
74 22.7 19.4 29.2



#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX005347.D
Acq: 15 Oct 2018 16:48

Tgt Ion: 84 Resp: 2656
Ion Ratio Lower Upper
84 100
49 115.7 101.2 151.8
51 38.5 29.5 44.3
86 60.2 52.3 78.5





#25

2-Butanone

Concen: 1.149 ug/l

RT: 4.71 min Scan# 583

Delta R.T. -0.01 min

Lab File: VX005347.D

Acq: 15 Oct 2018 16:48

Instrument :

MSVOA_X

ClientSampleId :

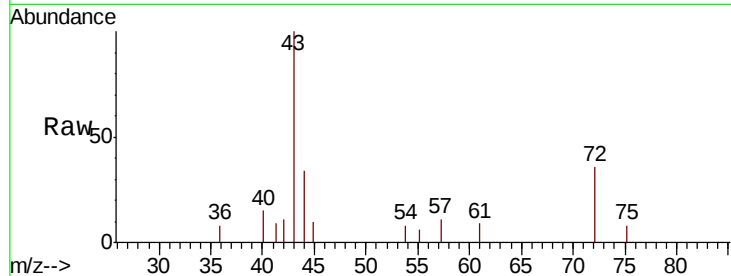
PB113825ZHE#03

Tot Ion: 43 Resp: 2820

Ion Ratio Lower Upper

43 100

72 35.7 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.71

800

600

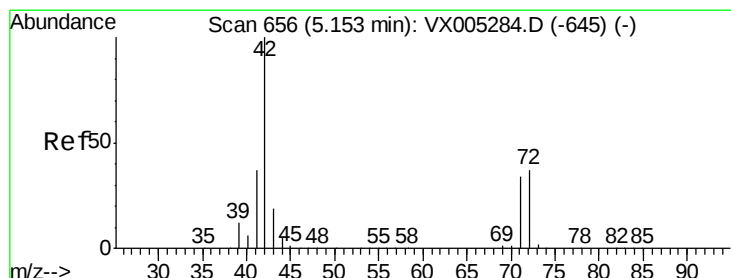
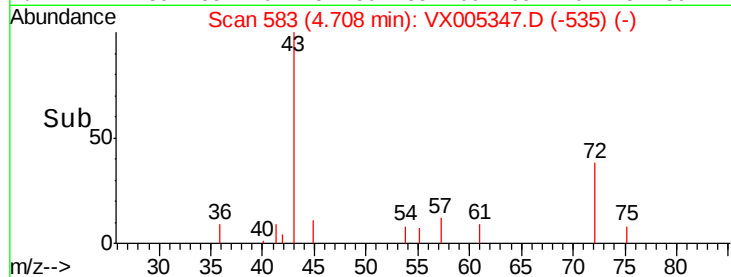
400

200

0

4.60 4.65 4.70 4.75 4.80

Time-->



#29

Tetrahydrofuran

Concen: 0.578 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX005347.D

Acq: 15 Oct 2018 16:48

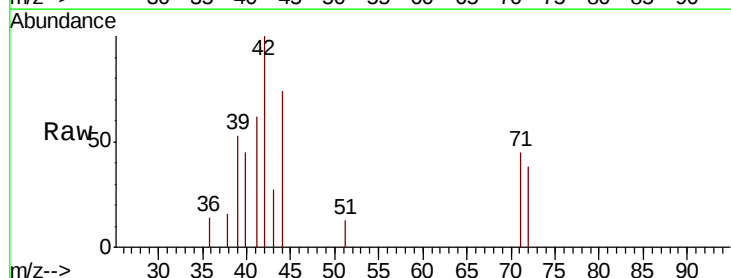
Tgt Ion: 42 Resp: 905

Ion Ratio Lower Upper

42 100

72 39.3 37.4 56.0

71 39.9 34.5 51.7



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

500

400

300

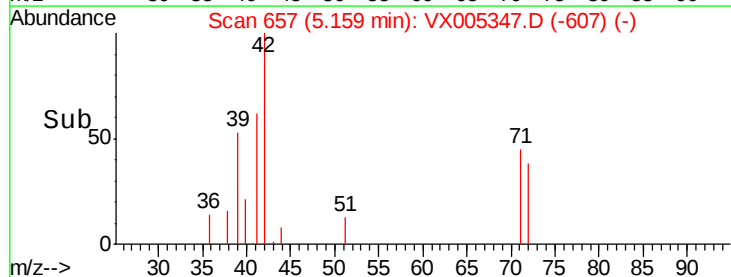
200

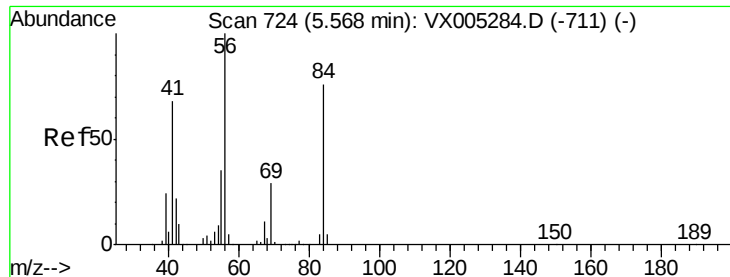
100

0

5.10 5.15 5.20

Time-->

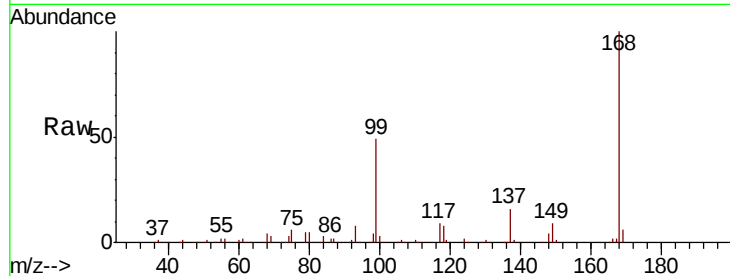




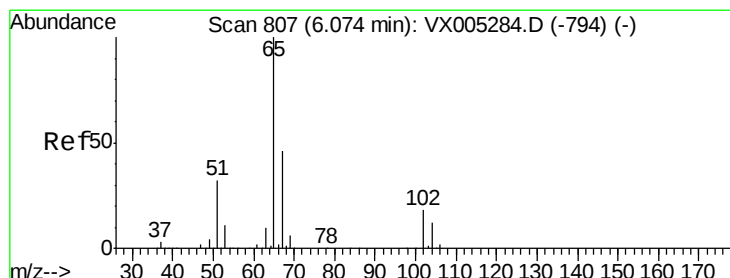
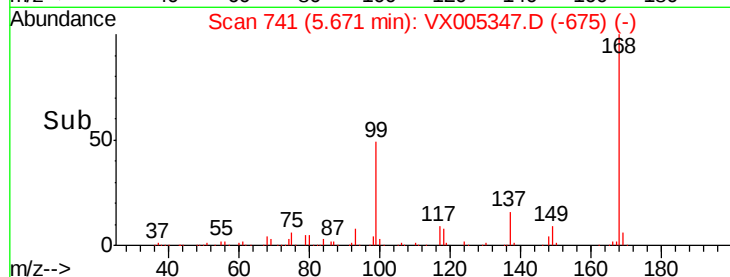
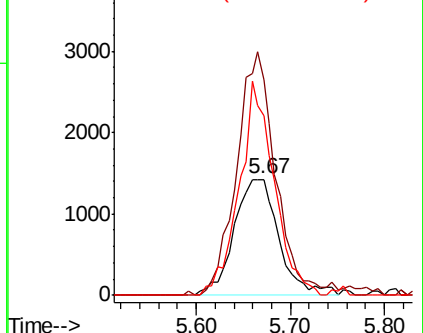
#31
Cyclohexane
Concen: 1.193 ug/l
RT: 5.67 min Scan# 741
Delta R.T. 0.10 min
Lab File: VX005347.D
Acq: 15 Oct 2018 16:48

Instrument :
MSVOA_X
ClientSampleId :
PB113825ZHE#03

Tot Ion: 56 Resp: 4758
Ion Ratio Lower Upper
56 100
69 182.4 25.4 38.2#
84 154.7 71.4 107.2#

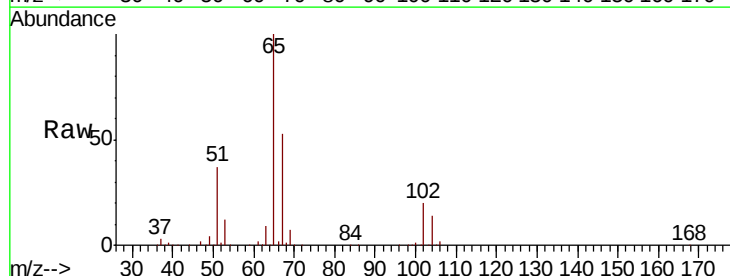


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

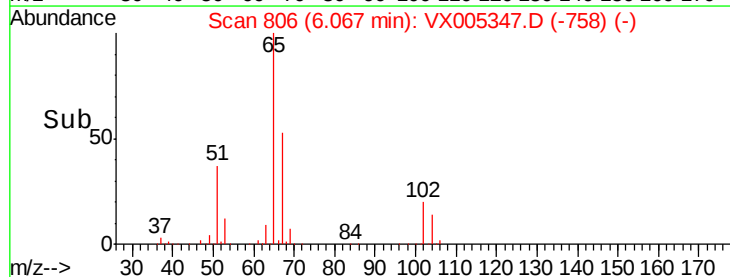
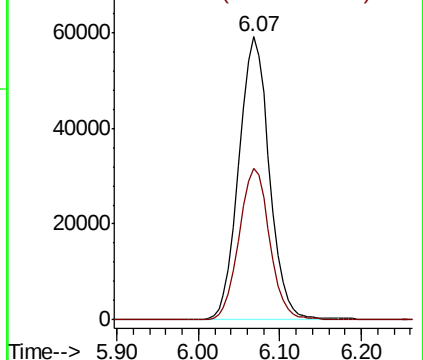


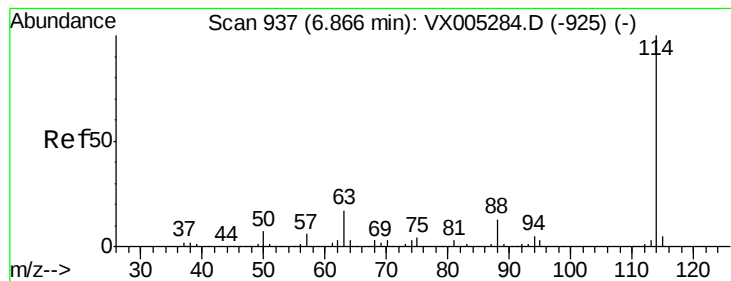
#33
1,2-Dichloroethane-d4
Concen: 52.973 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.01 min
Lab File: VX005347.D
Acq: 15 Oct 2018 16:48

Tgt Ion: 65 Resp: 153655
Ion Ratio Lower Upper
65 100
67 53.7 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.01 min

Lab File: VX005347.D

Acq: 15 Oct 2018 16:48

Instrument :

MSVOA_X

ClientSampleId :

PB113825ZHE#03

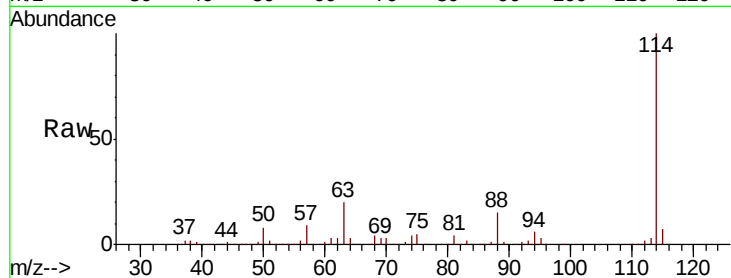
Tot Ion:114 Resp: 386594

Ion Ratio Lower Upper

114 100

63 20.4 0.0 39.0

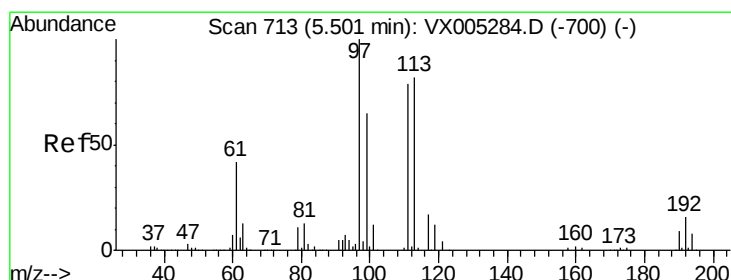
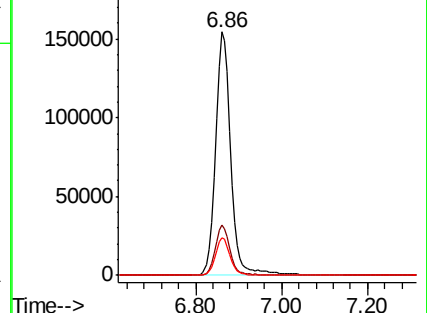
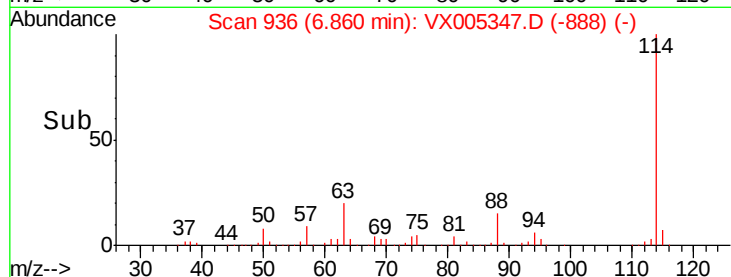
88 15.2 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.577 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005347.D

Acq: 15 Oct 2018 16:48

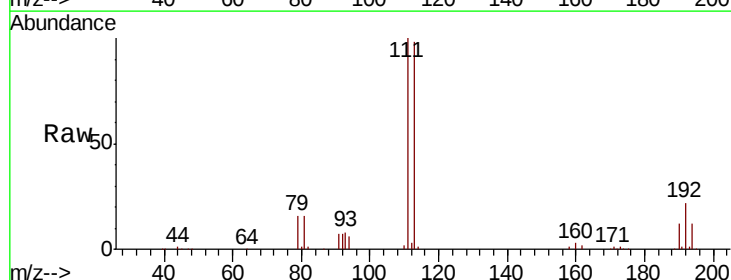
Tgt Ion:113 Resp: 124383

Ion Ratio Lower Upper

113 100

111 101.8 82.4 123.6

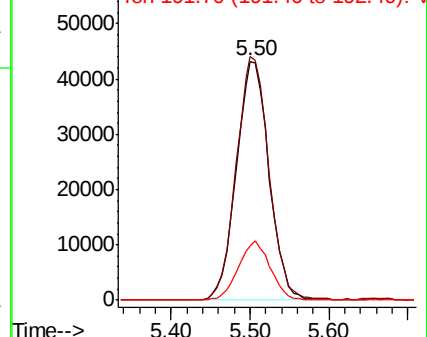
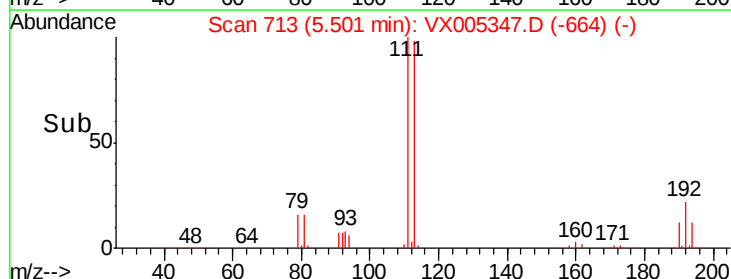
192 23.9 19.4 29.2

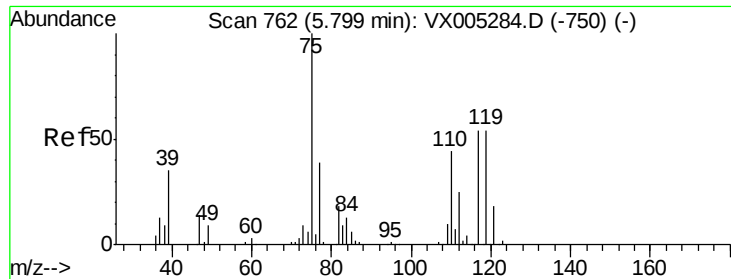


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.640 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005347.D

Acq: 15 Oct 2018 16:48

Instrument :

MSVOA_X

ClientSampleId :

PB113825ZHE#03

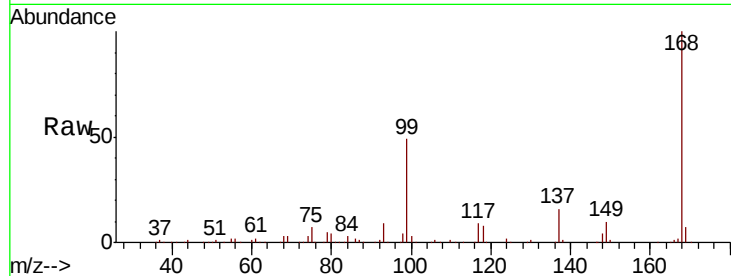
Tot Ion: 75 Resp: 17372

Ion Ratio Lower Upper

75 100

110 9.4 18.0 54.0#

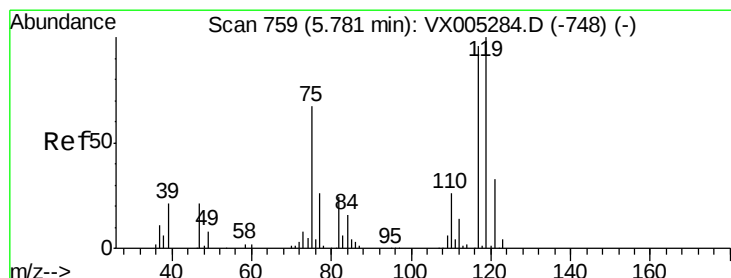
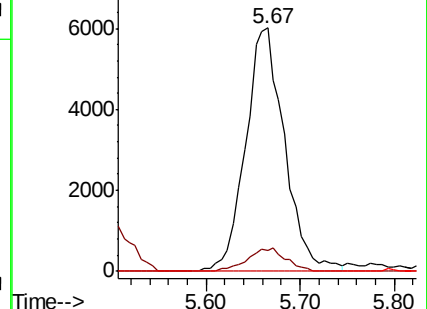
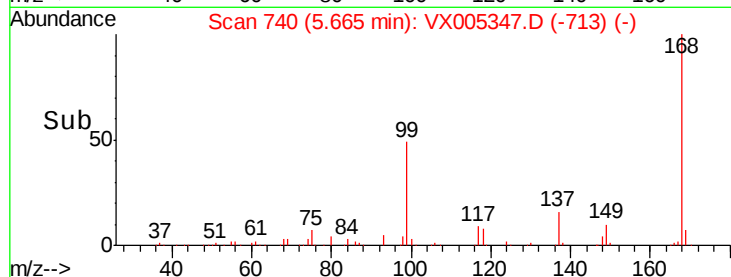
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.058 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005347.D

Acq: 15 Oct 2018 16:48

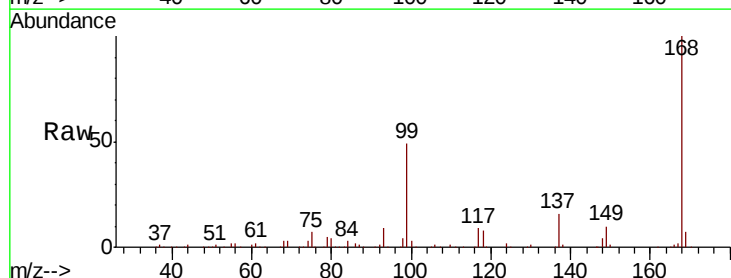
Tgt Ion: 117 Resp: 22790

Ion Ratio Lower Upper

117 100

119 4.7 78.8 118.2#

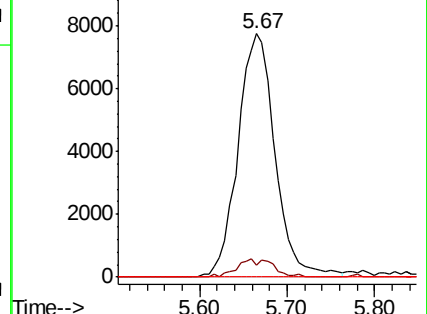
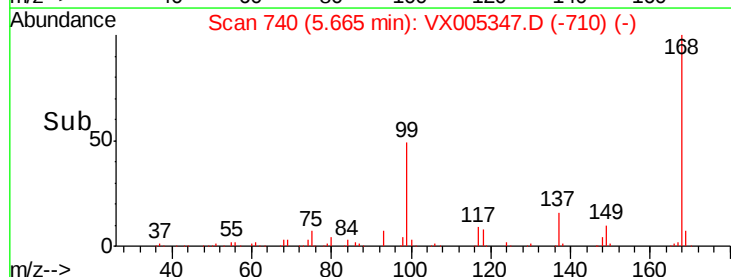
121 0.0 24.9 37.3#

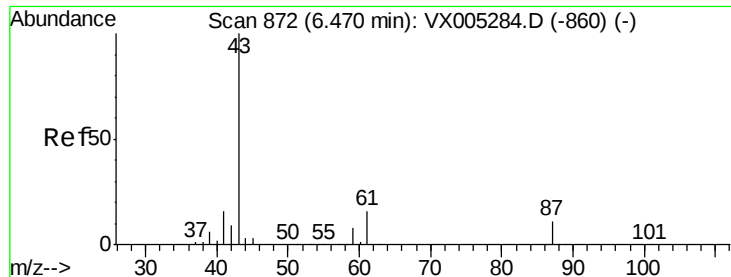


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 29.724 ug/l

RT: 6.46 min Scan# 870

Delta R.T. -0.01 min

Lab File: VX005347.D

Acq: 15 Oct 2018 16:48

Instrument :

MSVOA_X

ClientSampleId :

PB113825ZHE#03

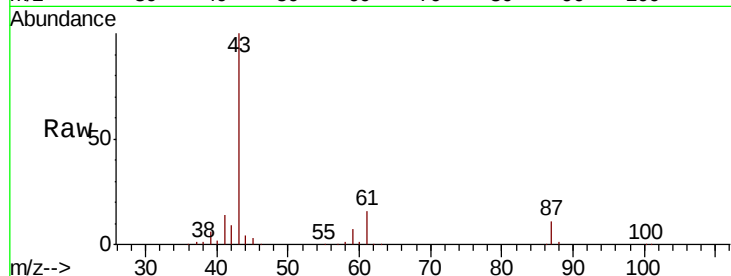
Tot Ion: 43 Resp: 190655

Ion Ratio Lower Upper

43 100

61 19.0 17.0 25.4

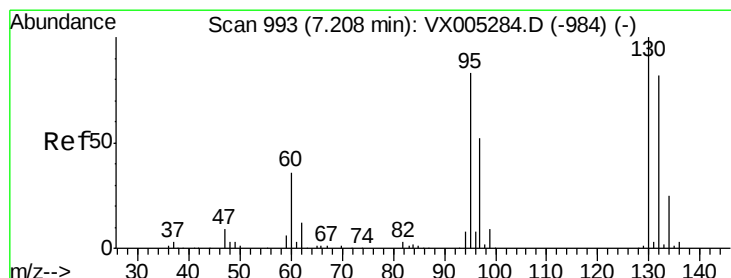
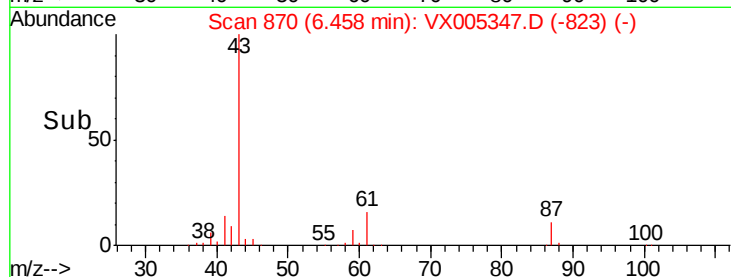
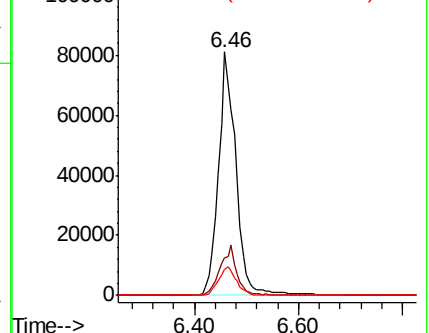
87 12.3 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VX005284.D (-860) (-)

Ion 61.00 (60.70 to 61.70): VX005284.D (-860) (-)

Ion 87.00 (86.70 to 87.70): VX005284.D (-860) (-)



#44

Trichloroethene

Concen: Below Cal

RT: 7.21 min Scan# 994

Delta R.T. 0.01 min

Lab File: VX005347.D

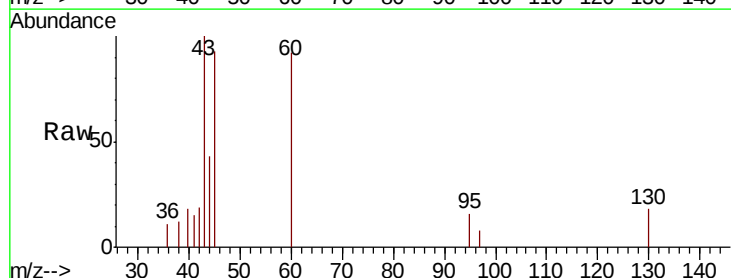
Acq: 15 Oct 2018 16:48

Tgt Ion:130 Resp: 207

Ion Ratio Lower Upper

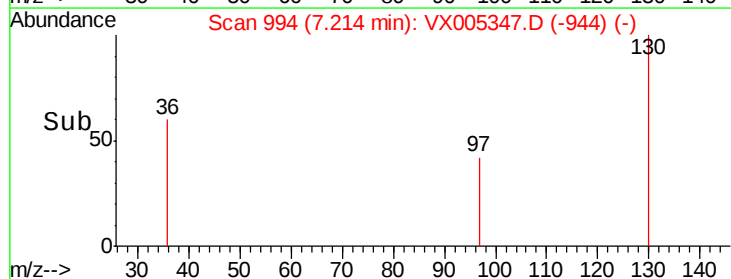
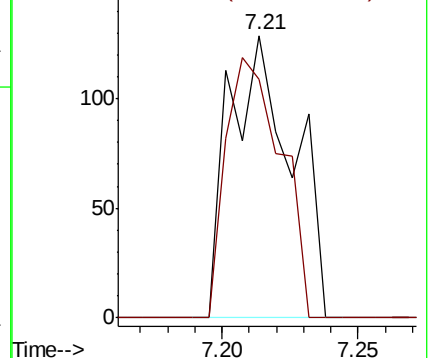
130 100

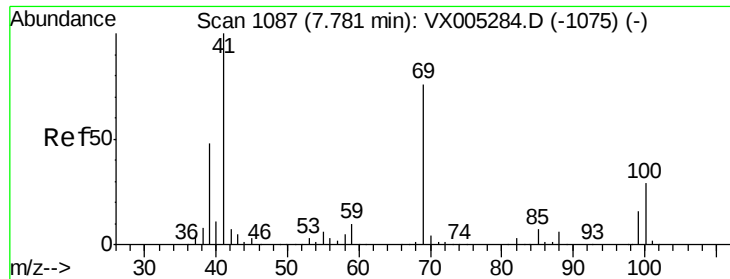
95 84.5 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): VX005284.D (-984) (-)

Ion 94.90 (94.60 to 95.60): VX005284.D (-984) (-)

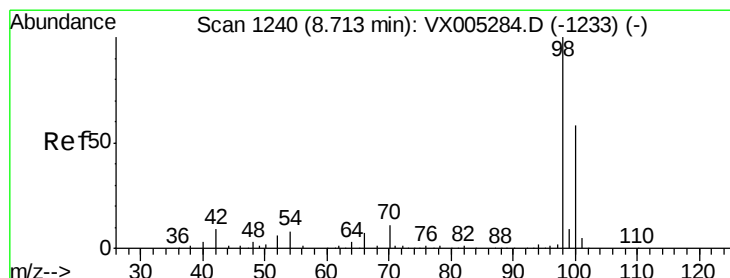
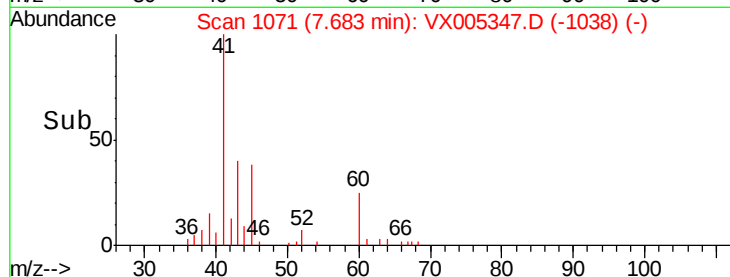
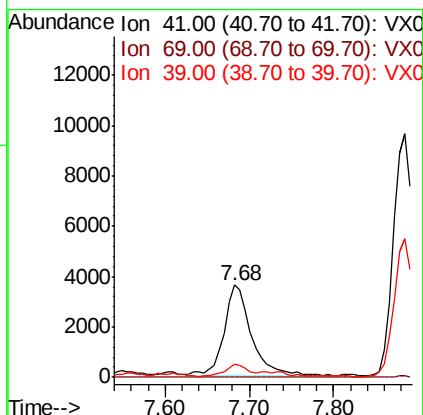
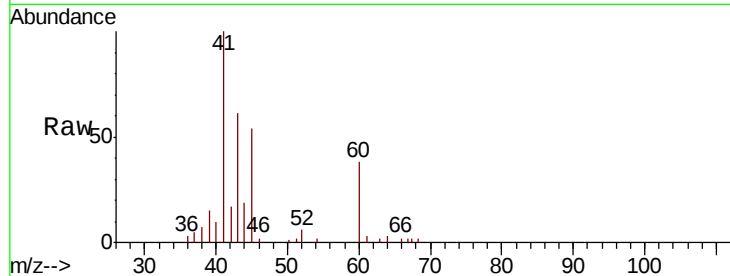




#48
Methyl methacrylate
Concen: 2.383 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.10 min
Lab File: VX005347.D
Acq: 15 Oct 2018 16:48

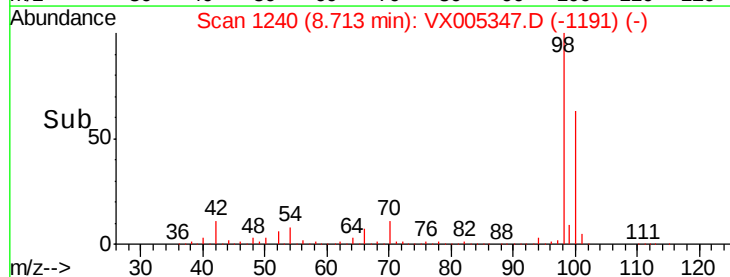
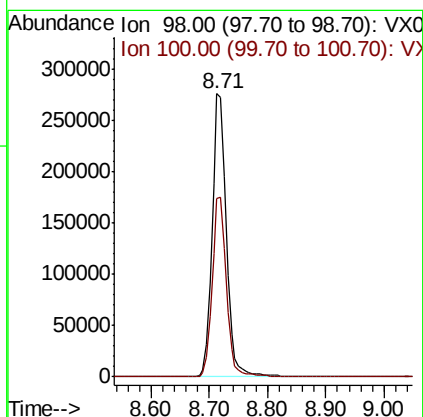
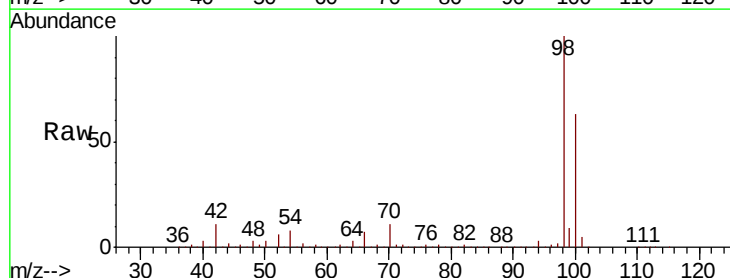
Instrument :
MSVOA_X
ClientSampleId :
PB113825ZHE#03

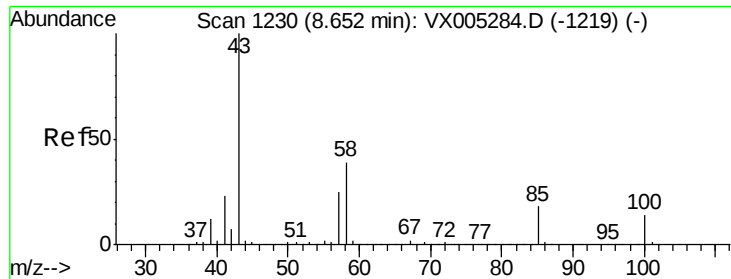
Tot Ion: 41 Resp: 7928
Ion Ratio Lower Upper
41 100
69 0.0 70.2 105.4#
39 12.9 42.7 64.1#



#50
Toluene-d8
Concen: 53.154 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX005347.D
Acq: 15 Oct 2018 16:48

Tgt Ion: 98 Resp: 467247
Ion Ratio Lower Upper
98 100
100 63.6 52.9 79.3





#51

4-Methyl-2-Pentanone

Concen: 0.794 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.04 min

Lab File: VX005347.D

Acq: 15 Oct 2018 16:48

Instrument :

MSVOA_X

ClientSampleId :

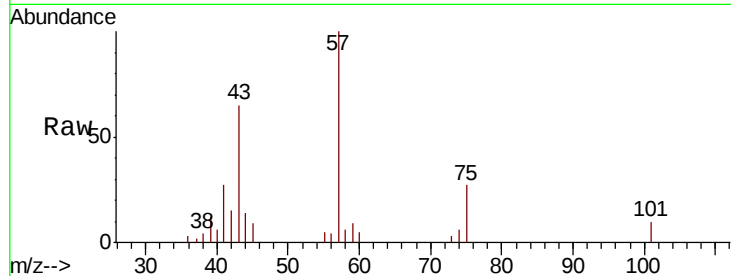
PB113825ZHE#03

Tot Ion: 43 Resp: 3526

Ion Ratio Lower Upper

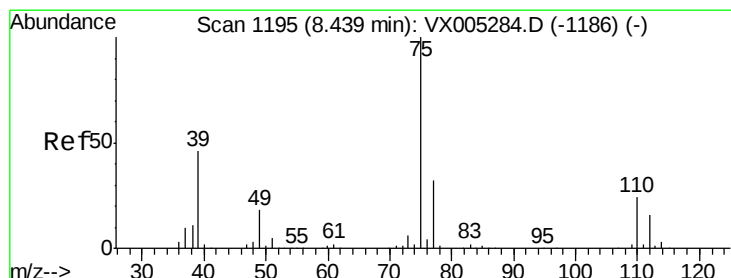
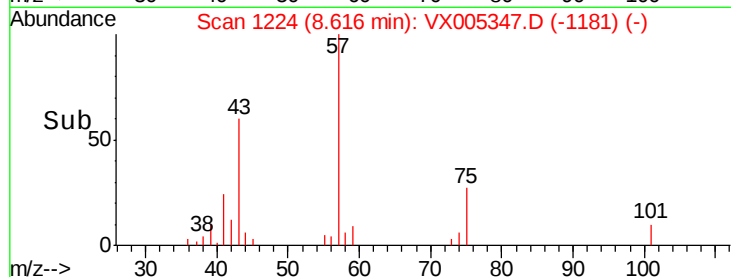
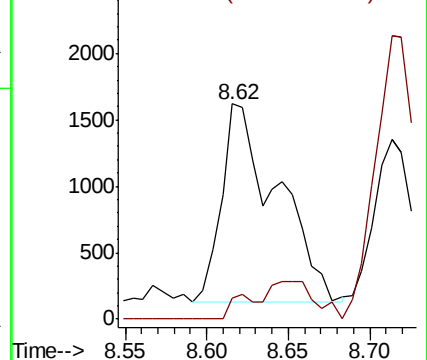
43 100

58 4.9 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#54

cis-1,3-Dichloropropene

Concen: 0.298 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.18 min

Lab File: VX005347.D

Acq: 15 Oct 2018 16:48

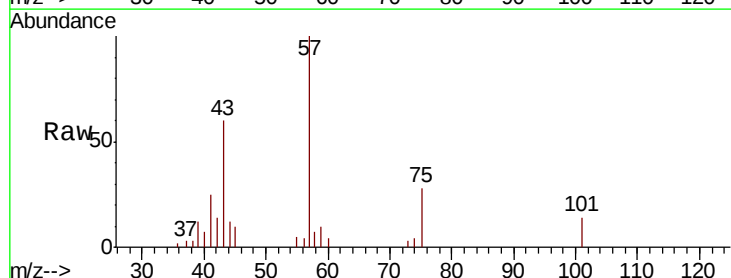
Tgt Ion: 75 Resp: 1177

Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

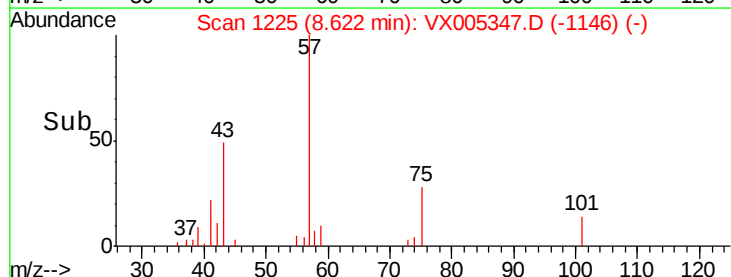
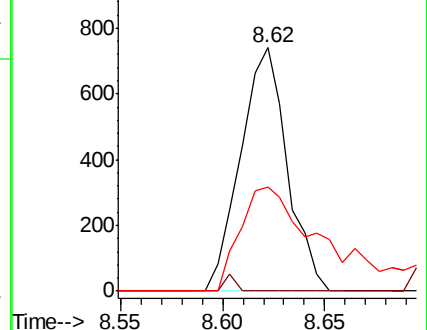
39 42.6 36.4 54.6

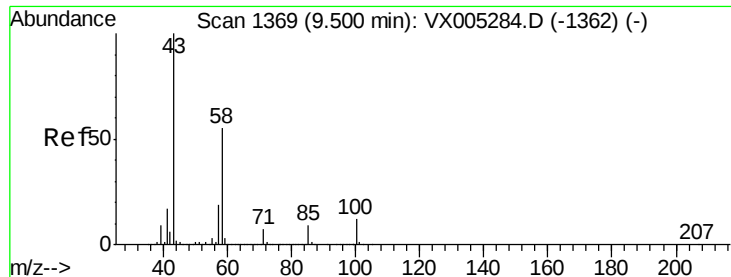


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

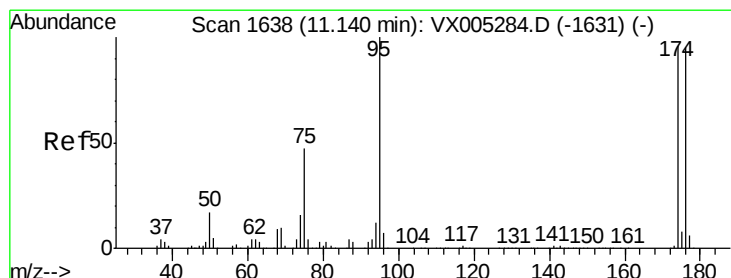
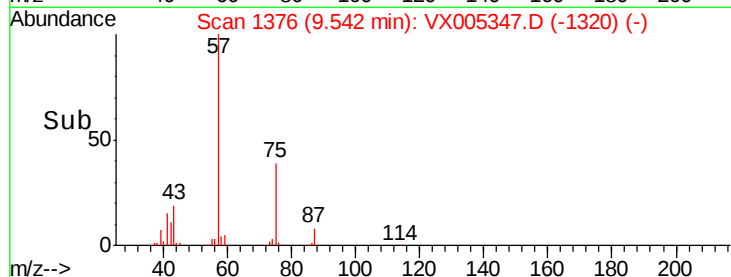
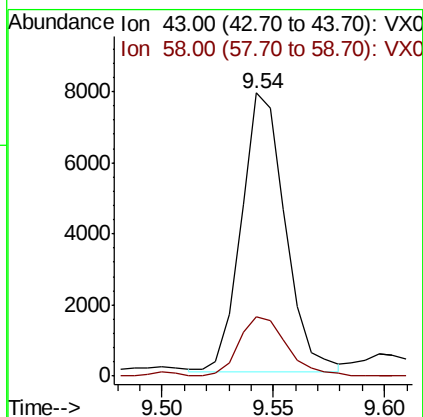
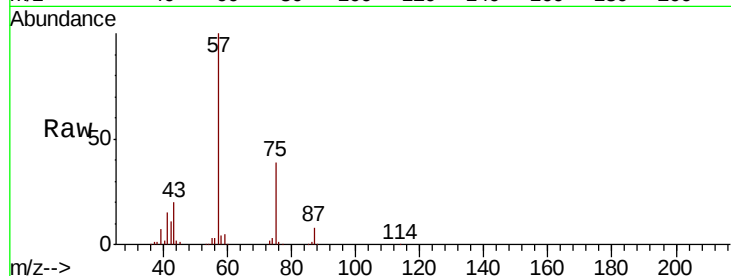




#59
2-Hexanone
Concen: 3.017 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.04 min
Lab File: VX005347.D
Acq: 15 Oct 2018 16:48

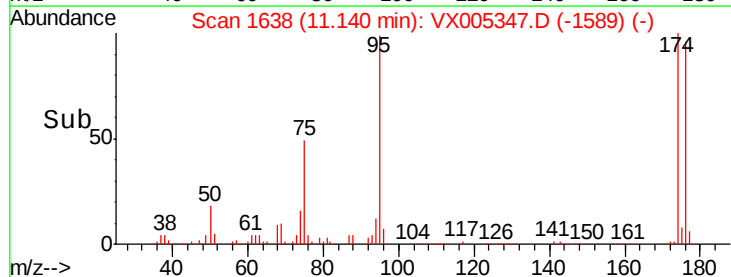
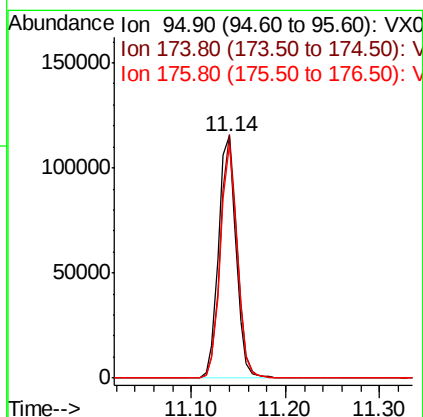
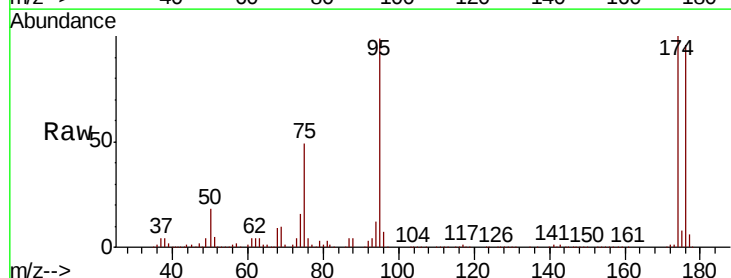
Instrument :
MSVOA_X
ClientSampleId :
PB113825ZHE#03

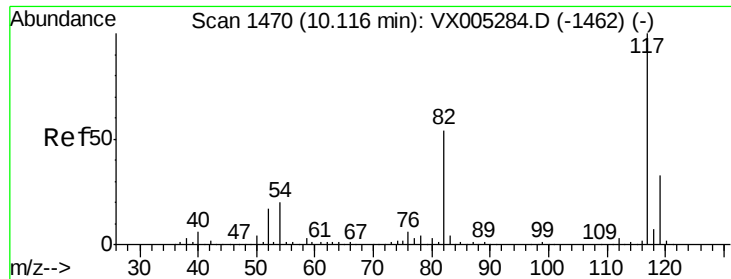
Tot Ion: 43 Resp: 10779
Ion Ratio Lower Upper
43 100
58 23.2 29.0 87.0#



#62
4-Bromofluorobenzene
Concen: 45.461 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005347.D
Acq: 15 Oct 2018 16:48

Tgt Ion: 95 Resp: 150123
Ion Ratio Lower Upper
95 100
174 96.3 0.0 185.2
176 92.2 0.0 178.6

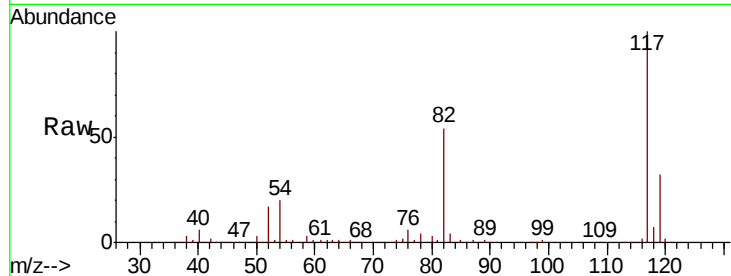




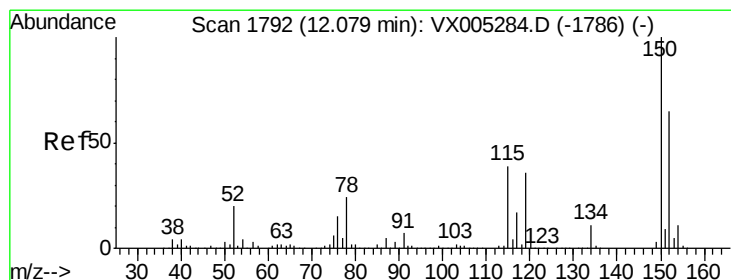
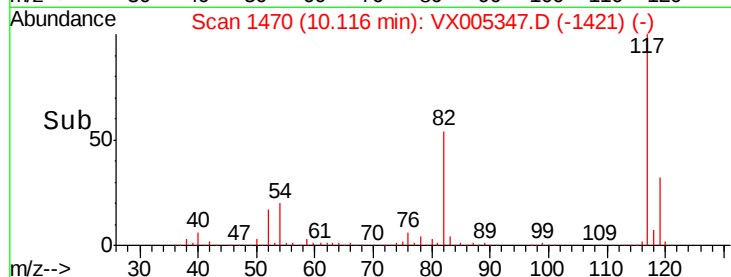
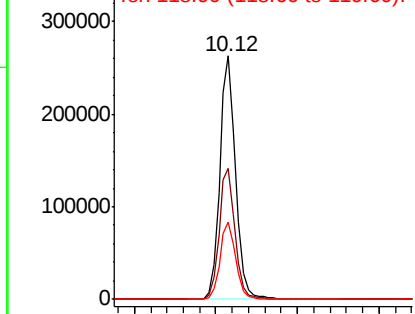
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005347.D
Acq: 15 Oct 2018 16:48

Instrument :
MSVOA_X
ClientSampleId :
PB113825ZHE#03

Tot Ion:117 Resp: 356130
Ion Ratio Lower Upper
117 100
82 53.6 47.8 71.6
119 32.0 29.3 43.9

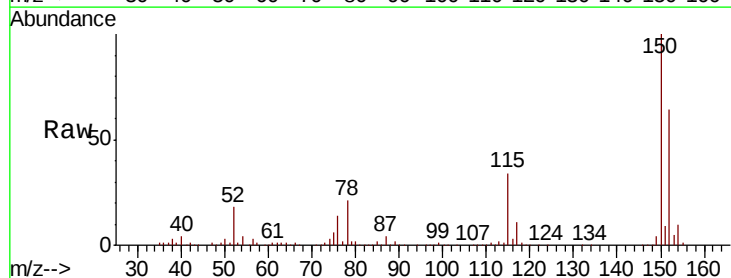


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

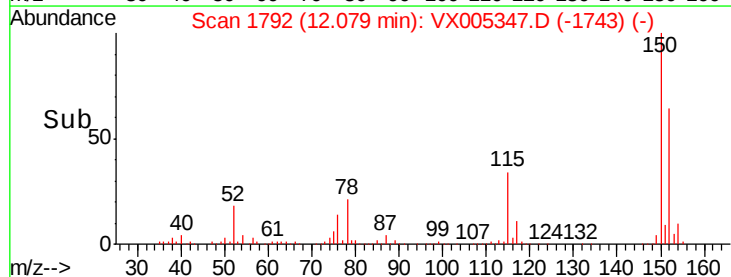
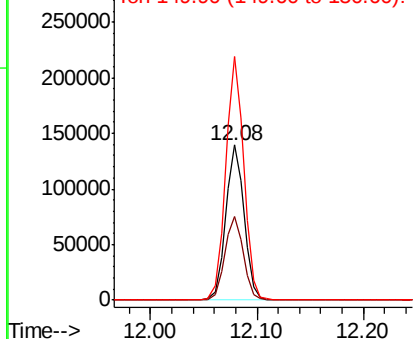


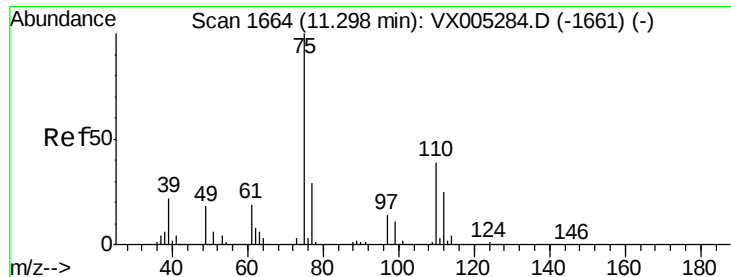
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005347.D
Acq: 15 Oct 2018 16:48

Tgt Ion:152 Resp: 167133
Ion Ratio Lower Upper
152 100
115 54.4 39.0 117.0
150 155.8 0.0 351.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

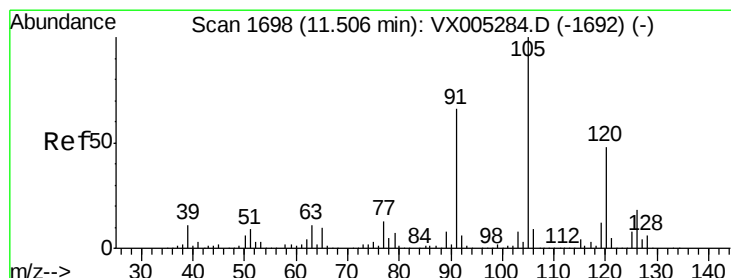
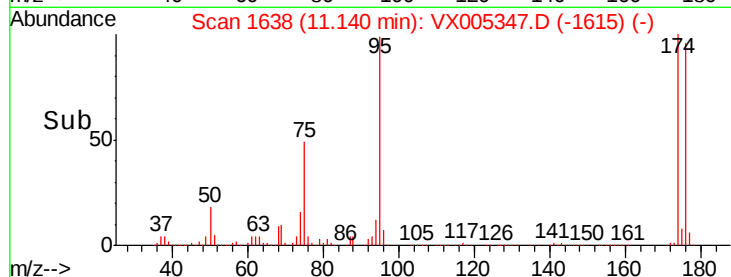
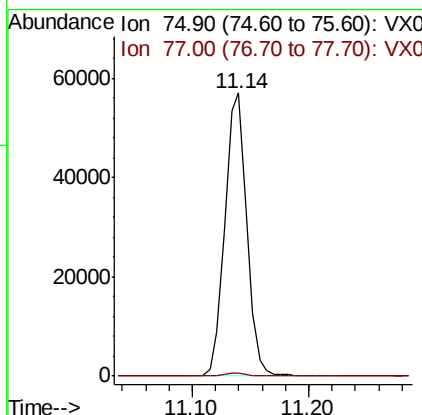
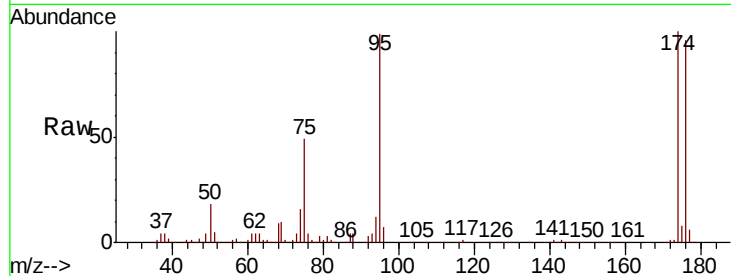




#76
 1,2,3-Trichloropropane
 Concen: 22.857 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX005347.D
 Acq: 15 Oct 2018 16:48

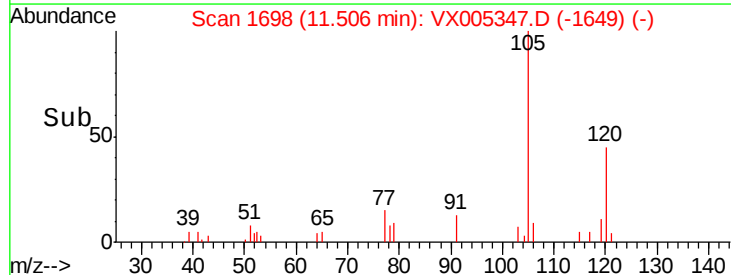
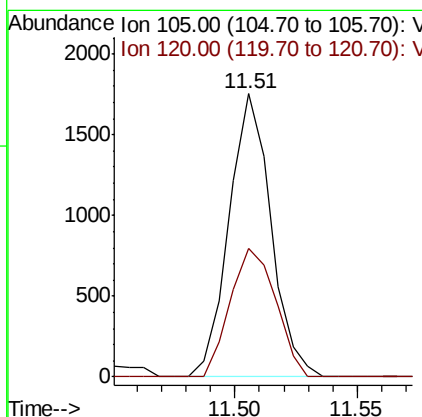
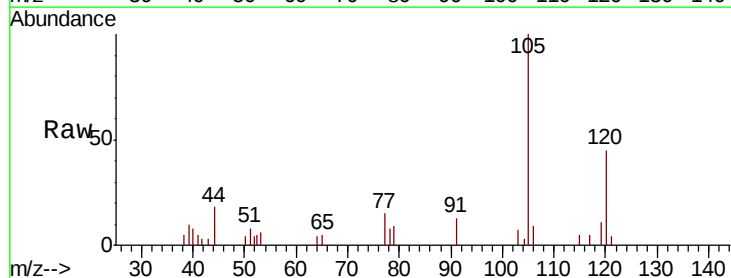
Instrument :
 MSVOA_X
 ClientSampleId :
 PB113825ZHE#03

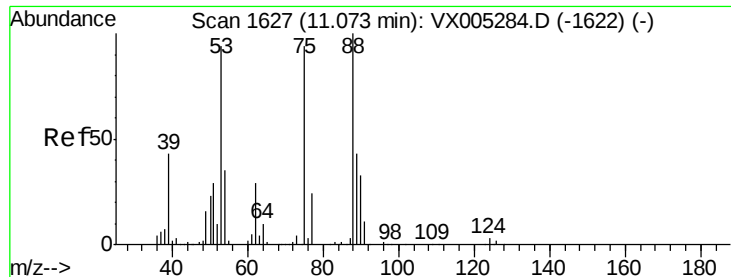
Tot Ion: 75 Resp: 74100
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.2 60.6#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.246 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX005347.D
 Acq: 15 Oct 2018 16:48

Tgt Ion: 105 Resp: 2091
 Ion Ratio Lower Upper
 105 100
 120 49.3 25.6 76.8





#81

trans-1,4-Dichloro-2-butene

Concen: 69.450 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005347.D

Acq: 15 Oct 2018 16:48

Instrument :

MSVOA_X

ClientSampleId :

PB113825ZHE#03

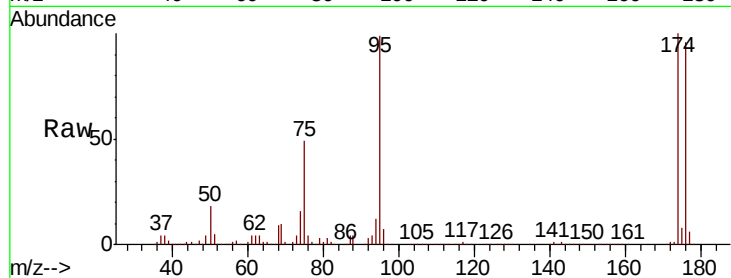
Tot Ion: 75 Resp: 74100

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

